

PHASE CHART

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL DUE TO UPGRADES OF PEDESTRIAN FACILITIES AT THE INTERSECTION OF US 1 (WASHINGTON BLVD) AND NORTH LAUREL ROAD IN HOWARD COUNTY. INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS AND COUNTDOWN PEDESTRIAN SIGNAL HEADS IS PROPOSED ALONG THE EAST LEG OF THE INTERSECTION. ADDITIONALLY, MODIFICATION OF THE EXISTING PEDESTRIAN RAMPS IS PROPOSED TO MEET CURRENT ADA REQUIREMENTS.

US 1 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA 3 PHASE, FULL TRAFFIC ACTUATED MODE.

CONTROLLER REQUIREMENTS

EXISTING CABINET AND CONTROLLER WILL BE UTILIZED. SHA FORCES WILL INSTALL ONE (1) 2-WIRE CENTRAL CONTROL UNIT.

SHA FORCES SHALL PERFORM ALL INTERNAL CABINET WIRING.

APS OPERATION

FOR NORTH LAUREL ROAD

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS NORTH LAUREL AT WASHINGTON, WAIT"
B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

THE CONTRACTOR SHALL CONTACT ED RODENHIZER AT THE SIGNAL SHOP 410-787-7650 TO DELIVER APS EQUIPMENT FOR TESTING.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: 301-624-8140

Ms. Andrea Abend
District Utility Engineer
Phone: 301-624-8115

Ms. Sue Palmer
Assistant District Engineer - Maintenance
Phone: 301-624-8108

Mr. John Huchrowski
Assistant District Engineer - Construction
Phone: 301-624-8201

THE CONTACT PERSONS FOR OFFICE OF TRAFFIC
AND SAFETY ARE AS FOLLOWS:

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

The Power Company Representative is:
Baltimore Gas & Electric Company
7317 Parkway Drive South
Hanover, MD 21076
Phone: 410-859-9062

EQUIPMENT TO BE FURNISHED BY THE SHA.

<u>CATEGORY</u> <u>CODE NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
973023	2 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGNS:

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CONTRACT NO: C-0285-02

<u>CATEGORY CODE NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
203030	2 CY	TEST PIT EXCAVATION
585621	200 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585700	380 LF	REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH
800000	1 EA	FURNISH AND INSTALL 90 DEGREE, 3 INCH CONDUIT BEND IN EXISTING FOUNDATION
800000	2 EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	2 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND SIGN
800000	1 EA	2-WIRE CENTRAL CONTROL UNIT
801004	1 CY	CONCRETE FOR SIGNAL FOUNDATION
801607	2 SF	INSTALL SHEET ALUMINUM SIGN
802145	1 EA	ADJUST EXISTING HANDHOLE
802501	50 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	50 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805160	10 LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
818004	2 EA	10 FOOT BREAKAWAY PEDESTAL POLE
837001	1 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860292	1 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	380 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG)
861107	400 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
862101	850 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG.)
862102	270 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

EQUIPMENT LIST 'C'

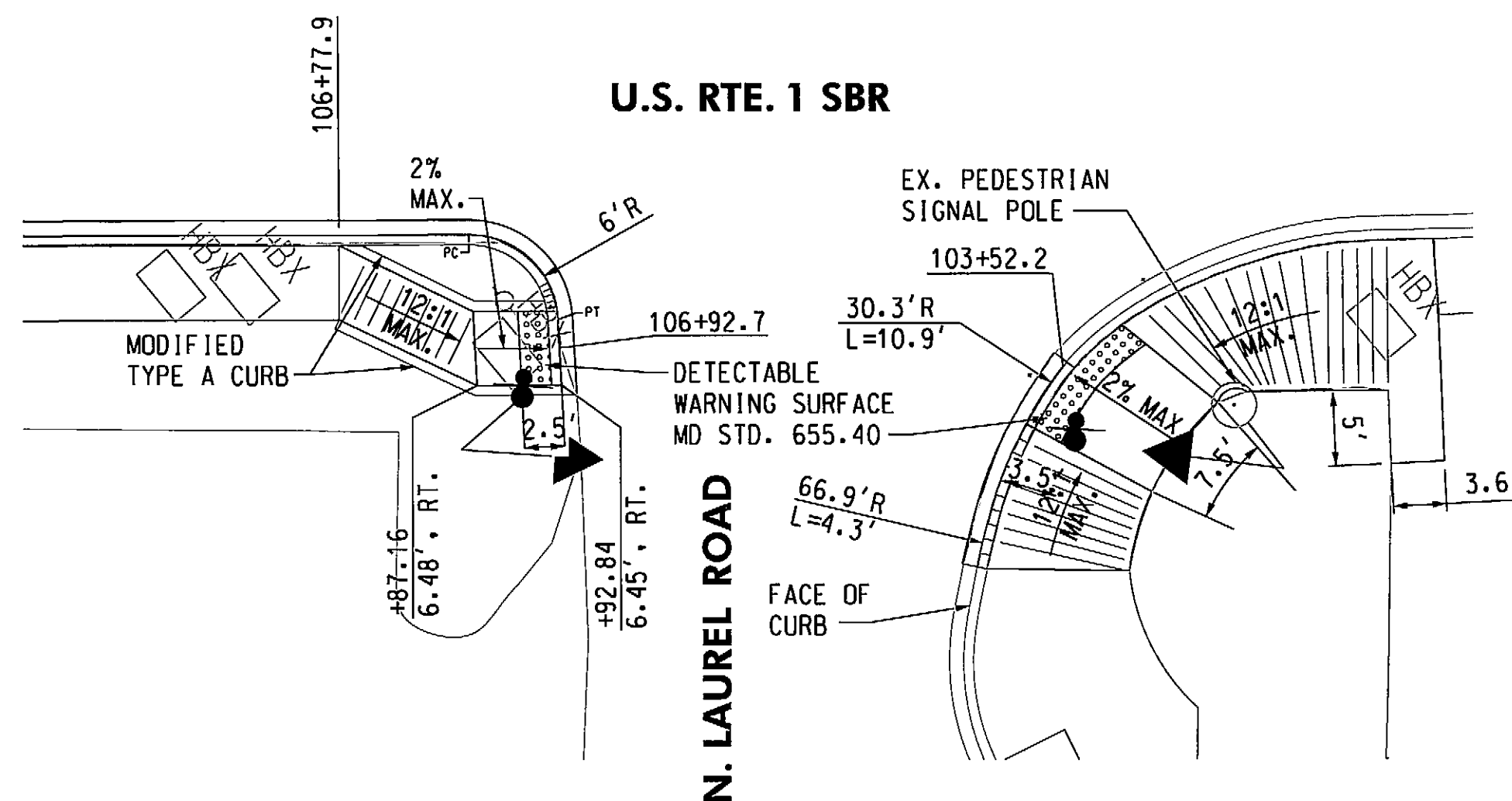
EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

<u>CATEGORY</u> <u>CODE NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
NONE	NONE	NONE

ALL REMOVED MATERIALS ARE TO BECOME
THE PROPERTY OF THE CONTRACTOR

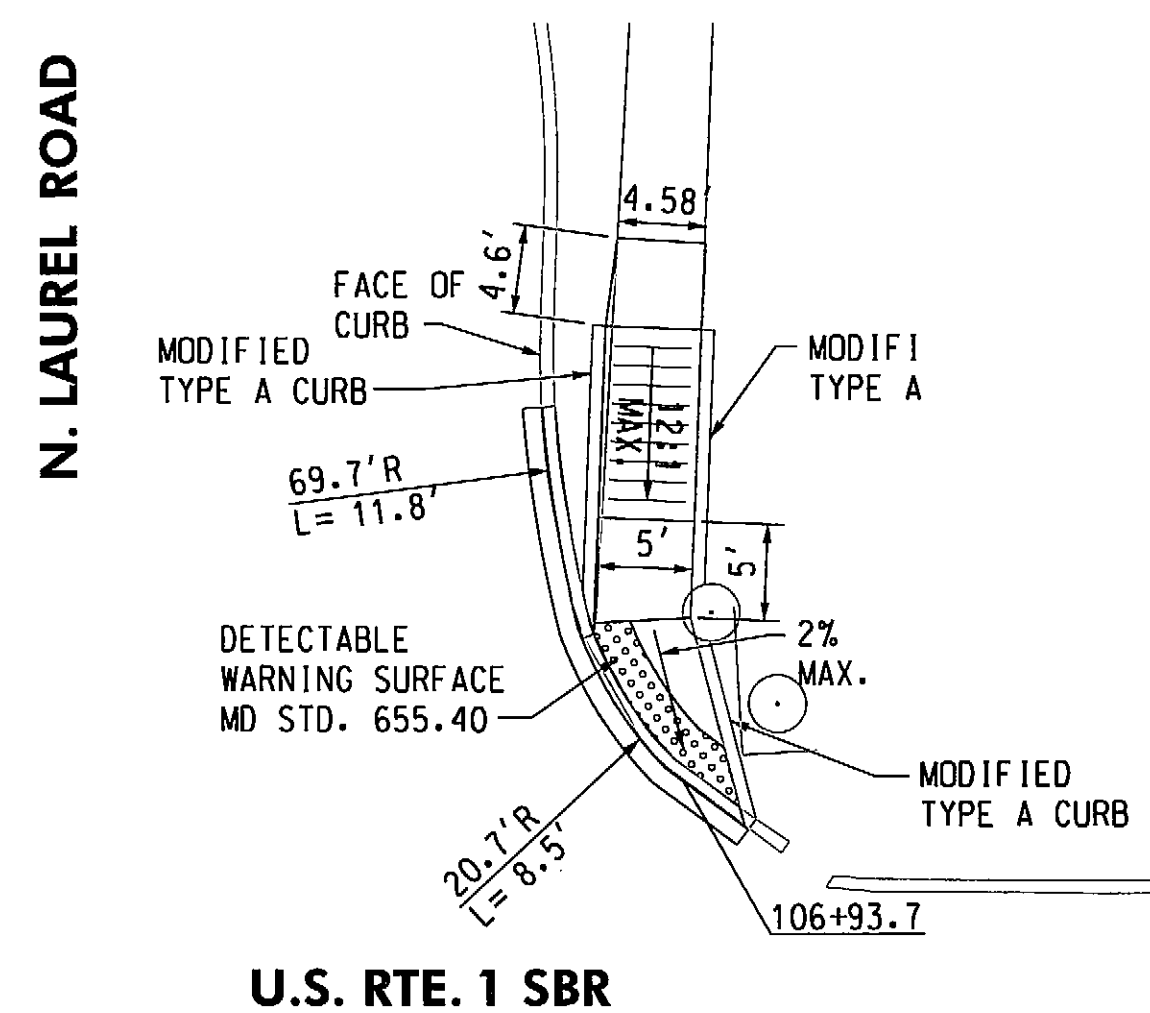
EAST SIDE SIGNAL AND RAMP DETAILS

SCALE: 1" = 10'

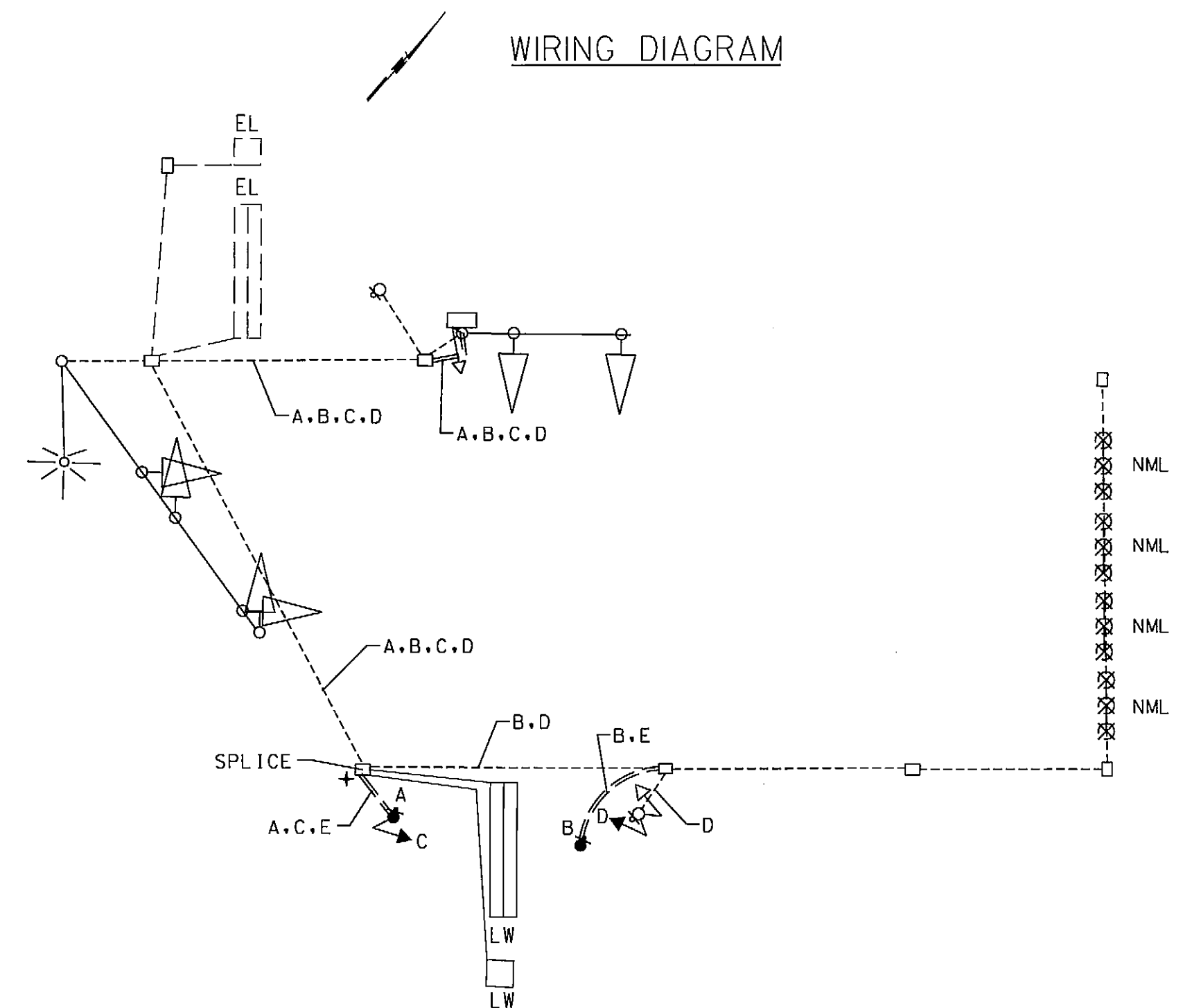


WEST SIDE SIGNAL AND RAMP DETAILS

SCALE: 1" = 10'



WIRING DIAGRAM



- A,B - ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
C,D - ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
E - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
LW - LOOP WIRE
EL - EXISTING LOOP DETECTOR
NML - EXISTING NON-INVASIVE MICROLOOP PROBE
SPLICE - SPLICE PROPOSED LOOP WIRE INTO EXISTING
 2 CONDUCTOR AT HANDHOLE
+ - 3/4 IN. X 10 FT. GROUND ROD



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 1 CORRIDOR REVITALIZATION
1 (SOUTHBOUND) AT NORTH LAUREL ROAD

GENERAL INFORMATION SHEET

SCALE AS SHOWN ADVERTISED DATE AUG, 2011 CONTRACT NO. C-0285-02

DESIGNED BY P.WESTCOTT COUNTY HOWARD
DRAWN BY P.WESTCOTT LOGMILE 13000100.21
CHECKED BY J.WANG TIMS NO. K823
F.A.P. NO. TOD NO.

TS NO. 1605C	DRAWING SG-02 OF 08	SHEET NO. 18 OF 24
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RJM ENGINEERING, INC.
CONSULTING ENGINEERS
ELLCOTT CITY, MARYLAND

PLOTTED: Tuesday, August 02, 2011 AT 09:15 AM
FILE: P:\SHA\US 1 at North Laurel Rd\2011-07\pSG-N002_US1-NorthLaurel.dgn